



Presentations by Faculty and Students at the AIChE 2011 Annual Meeting, 16-21 October, Minneapolis, MN

Micah Green

1. Nicholas G. Parra-Vasquez, Natnael Behabtu, Micah J. Green, Cary L. Pint, Colin C. Young, Judith Schmidt, Ellina Kesselman, Anubha Goyal, Pulickel M. Ajayan, Yachin Cohen, Yeshayahu Talmon, Robert H. Hauge and Matteo Pasquali. *Spontaneous Dissolution of Ultralong Carbon Nanotubes for Production of Near CNT Fibers.* (Thursday, October 20, 2011 at 1:30 PM; Room 205 D - Minneapolis Convention Center; Paper No [693c](#))
2. Ahmed Wajid, Sriya Das, Fahmida Irin, Tanvir Ahmed, John Shelburne and Micah Green. *Polymer-Stabilized Graphene Dispersions At High Concentrations In Organic Solvents for Nanocomposite Production.* (Thursday, October 20, 2011 at 1:48 PM; Room 205 D - Minneapolis Convention Center; Paper No [693d](#))

Ronald Hedden

1. Ronald C. Hedden, Huipeng Chen, Ziniu Yu, Daniel M. Lentz, Ryan K. Nunley. *Surface Infusion Micropatterning of Elastomeric Substrates: A Novel Processing Method for Microfluidic Device Fabrication.* (Thursday, October 20, 2011: 1:30 PM; Room L100 B - Minneapolis Convention Center; Paper No [706d](#))
2. Ronald C. Hedden, Lan Ma, Jun Zhao, Seunghyun Ryu and M. Nazmul Karim. *Polymers for Biomass Energy Conversion: Porous Scaffold Materials for a Continuous-Flow, Immobilized-Cell Fermentation Process.* (Thursday, October 20, 2011 at 3:15 PM; Room L100 B - Minneapolis Convention Center; Paper No [750a](#))
3. Ronald C. Hedden, Huipeng Chen, Ziniu Yu and Daniel M. Lentz. *Mechanical Response of Polydomain Smectic Elastomers: Influence of Thermal History* (Tuesday, October 18, 2011 at 2:40 PM; Room L100 C - Minneapolis Convention Center; Paper No [337g](#))

M. Nazmul Karim

1. Peiyong Qin and M. Nazmul Karim, *Preparation and Characterization of the Peptide Modified Regenerated Cellulose Membrane for Binding H1N1 Virus* (Wednesday, October 19, 2011 at 12:55 PM; room 200 D - Minneapolis Convention Center; Paper No [538b](#))
2. Weiting Tang, M. Nazmul Karim. *The Square-Root Unscented Kalman Filter for Leak Detection and Location In Natural Gas Pipelines* (Wednesday, October 19, 2011 at 9:30 AM; room 101 I - Minneapolis Convention Center; Paper No [476d](#))
3. Zheng Li and M. Nazmul Karim. *Optimal Control of Fed-Batch Fermentation Process Using Modified Iterative Dynamic Programming* (Wednesday, October 19, 2011 at 5:27 PM; Room 101 H - Minneapolis Convention Center; Paper No [595h](#))
4. Alim Dewan, Jihye Kim, Swastika S. Bithi, Marci Kerls, Siva A. Vanapalli and M. Nazmul Karim. *Single-Cell Growth Kinetics of Algae, Chlorella Vulgaris* (Monday, October 17, 2011 at 2:10 PM; Room 211 A - Minneapolis Convention Center; Paper No [62e](#))

Rajesh Khare

1. Ketan Khare and Rajesh Khare. *Molecular Simulation Study of Nanoscale Heterogeneities In Epoxy-Carbon Nanotube Nanocomposites* (Monday, October 17, 2011 at 9:45 AM; Room 102 B - Minneapolis Convention Center; Paper No [58d](#))

Raghunathan Rengasamy

1. Babji Srinivasan, Tim Spinner and Raghunathan Rengasamy. *Control Loop Performance Assessment Using Detrended Fluctuation Analysis* (Thursday, October 20, 2011 at 2:10 PM; Room 103 F - Minneapolis Convention Center; Paper No [710f](#))
2. Debansu Bhattacharyya, M. Srinivasarao, Brian Bullocks and Raghunathan Rengasamy. *A Two-Phase Two-Dimensional Steady State Model of a Cylindrical PEM Fuel Cell Cathode* (Tuesday, October 18, 2011 at 2:10 PM; Room 208 B - Minneapolis Convention Center; Paper No [294f](#))

Siva A. Vanapalli

1. Siva A. Vanapalli and Swastika S. Bithi. *Hydrodynamic Self-Rectification: A Novel Mechanism for Generating Uniform Droplet Arrays In a Microfluidic Network* (Tuesday, October 18, 2011 at 10:15 AM; Room 101 D - Minneapolis Convention Center; Paper No [236i](#))